2152

PATENT

#4

P POCKET NO.: MSFT-0584/167511.2

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

RECEIVED

DEC 1 1 2001

Technology Center 25

Re Application of:

Steven E. Swenson et al.

Serial No.: 09/904,465

Filing Date: July 13, 2001

Group Art Unit: 2152

Examiner: Not Yet Assigned

For: SYSTEM AND METHODS FOR AUTOMATIC DSP PROCESSING

DATE OF DEPOSIT:

November 16 2021

I HEREBY CERTIFY THAT THIS PAPER IS BEING DEPOSITED WITH THE UNITED STATES POSTAL SERVICE AS FIRST CLASS MAIL, POSTAGE PREPAID ON THE DATH INDICATED ABOVE AND IS ADDRESSED TO THE ASSETANT COMMISSIONED FOR PATENTS, WASHINGTON, DC 20231.

TYPED NAME: George J. Awar

Assistant Commissioner for Patents Washington, D.C. 20231

Dear Sir:

INFORMATION DISCLOSURE STATEMENT

Pursuant to 37 C.F.R. §1.56 and in accordance with 37 C.F.R. §§1.97-1.98, information relating to the above-identified application is hereby disclosed. Inclusion of information in this statement is not to be construed as an admission that this information is material as that term is defined in 37 C.F.R. §1.56(b).

In accordance with §1.97(b), since this Information Disclosure Statement is being filed either within three months of the filing date of the above-identified application, within three months of the date of entry into the national stage of the above identified application as set forth in §1.491, before the mailing date of a first Office Action on the merits of the above-identified application, or before the mailing date of a first office action after the filing of request for continued examination under §1.114, no additional fee is required.

Ю.: М:	SFT-0584/167511.2	PATENT
In ac	cordance with §1.129(a), this Information Disclosure Sta	tement is being filed in
conn	ection with \Box the first or \Box second After Final Submission	on, therefore:
	Certification in Accordance with §1.97(e) is attached;	or
	The fee of \$180.00 as set forth in \$1.17(p) is attached.	
		_
	☐ Certification in Accordance with §1.97(e) is att	ached; or
	The fee of $$180.00$ as set forth in $$1.17(p)$ is at	tached.
In ac	ecordance with §1.97(d), this Information Disclosure St	atement is being filed
after	the mailing date of either a Final Action under §1.113 or	a Notice of Allowance
		·
		in §1.9/(e); and the
		PTO-1449 are enclosed
herev	with.	
Copi	es of references listed on the attached Form PTO-1449 ar	re enclosed herewith.
FXC	ΈΡΤ ΤΗ ΔΤ·	
		annronriatal and the
_	•	
	enclosed herewith.	tammor, copies are not
	In according to the rest of th	The fee of \$180.00 as set forth in \$1.17(p) is attached. In accordance with \$1.97(c), this Information Disclosure St after the period set forth in \$1.97(b) above but before the m Final Action under \$1.113 or a Notice of Allowance under action that otherwise closes prosecution in the application, the Certification in Accordance with \$1.97(e) is att The fee of \$180.00 as set forth in \$1.17(p) is att In accordance with \$1.97(d), this Information Disclosure St after the mailing date of either a Final Action under \$1.113 or under \$1.311 but before, or simultaneously with, the payr therefore included are: Certification in Accordance with submission fee of \$180.00 as set forth in \$1.17(p). Copies of each of the references listed on the attached Form Inherewith. Copies of references listed on the attached Form PTO-1449 at EXCEPT THAT: □ In view of the voluminous nature of references [list as likelihood that these references are available to the Except to the property in the payr that the set of the standard standard form PTO-1449 and the standard form PTO-1449 and the payr that the set of the standard form PTO-1449 and the standa

- 2 -

been made in the instant application:

In accordance with §1.98(d), copies of the following references listed on the

attached Form PTO-1449 are not enclosed herewith because they were

previously cited by or submitted to the U.S. Patent and Trademark Office in

patent application(s) for which a claim for priority under 35 U.S.C.§120 have

DOCKET NO.: MSFT-0584/167511.2

PATENT

Copies of references [list as appropriate] listed on the attached Form PTO-
1449 were previously cited by or submitted to the Patent and Trademark
Office in prior application Serial No. , filed .

If any of the foregoing publications are not available to the Examiner, Applicant will endeavor to supply copies at the Examiner's request.

Please charge any deficiency or credit any overpayment to Deposit Account No. 23-3050. This form is submitted in duplicate.

There are no listed references that are not in the English language.

Date: Normbu 14, 2001

Registration N

WOODCOCK WASHBURN LLP

One Liberty Place - 46th Floor

Philadelphia, PA 19103

Telephone: (215) 568-3100 Facsimile: (215) 568-3439

List of Patent and Publications Cited by Applicant (Use several sheets if necessary)

U.S. Department of Commerce Patent and Trademark Office



Docket No.

MSFT-0584/167511.2

Serial No. **09/904,465**

Applicant

Steven E. Swenson et al.

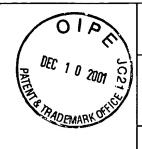
Grobennology Center > 100

Filing Date
July 13, 2001

OTHER DOCUM	TENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	
AA	Appelbaum, M. et al., "Agile – A CAD/ CAM/ CAE Interface Language," Society of Manufacturing Engineers: Technical Paper, 1984, MS84-182, 1-19	
AB	Bendix, L. et al., "CoEd – A Tool for Versioning of Hierarchical Documents," B. Magnusson (Ed.), System Configuration Management, Proc. ECOOP'98 SCM-8 Symposium, Brussels, Belgium, July 20-21, 1998	
AC	Biglari-Abhari, M. et al., "Improving Binary Compatibility in VLIW Machines through Compiler Assisted Dynamic Rescheduling," <i>IEEE</i> , 2000 , 386-393	
AD (oneh, D. et al., "Collusion-secure fingerprinting for digital data," <i>IEEE Trans</i> . Formation Theory, 1998, 44(5), 1897-1905	
AE Bratsberg, S.E., "Unified Class Evolution by Object-Oriented Views," Pera al. (Eds.), Entity-Relationship Approach – ER '92. Proc. 11 th International Conference on the Entity-Relationship Approach, Karlsruhe, Germany, Oc 1992, 423-439		
AF	Bresin, R. et al., "Synthesis and decoding of emotionally expressive music performance," <i>IEEE SMC '99 Conference Proceedings. 1999 IEEE Int'l Conf. On Systems, Man, and Cybernetics,</i> 1999, Vol. 4, 317-322	
AG	Camurri, A. et al., "Multi-Paradigm Software Environment for the Real-Time Processing of Sound, Music and Multimedia," <i>Knowledge-Based Systems</i> , 1994 , 7(2), 114-126	
АН	Camurri, A. et al., "Music and Multimedia Knowledge Representation and Reasoning - The Harp System," Computer Music J., 1995, 19(2sum), 34-58	
Camurri, A., "Music content processing and multimedia: Case studies and emergin applications of intelligent interactive systems," J. New Music Res., 1999, 28(4), 35 363		
AJ	Clamen, S.M., "Schema Evolution and Integration", Distributed and Parallel Databases 2, 1994, 2, 101-126	
EXAMINER	DATE CONSIDERED	

List of Patent and Publications Cited by Applicant (Use several sheets if necessary)

U.S. Department of Commerce Patent and Trademark Office



Docket No.

MSFT-0584/167511.2

Applicant

Steven E. Swenson et al.

Serial No.
09/904,4657ECE/VED

al. Technology Genter 2100

Filing Date July 13, 2001

AK	Cohen, W.W. et al., "Web-collaborative filtering: recommending music by crawling the Web," Computer Networks, 2000, 33, 685-698		
AL Conradi, R. "Version Models for Software Configuration Management Computing Surveys, June 1998, 30(2), 232-282			
AM	AM Conradi, R. et al., "Change-Oriented Versioning: Rationale and Evaluation," Thir Int'l. Workshop – Software Engineering & Its Applications, December 3-7, 1990, Toulouse, France, pp. 97-108		
AN	Craner, P.M., "New Tool for an Ancient Art: The Computer and Music," Computers and Humanities, 1991, 25, 303-313		
AO	De Castro, C. et al., "Schema Versioning for Multitemporal Relational Databases," Information Systems, 1997, 22(5), 249-290		
AP	DeRoure, D.C. et al., "Content-based navigation of music using melodic pitch contours," <i>Multimedia Systems</i> , 2000 , <i>8</i> , 190-200		
AQ	Drossopoulou, S. et al., "A Fragment Calculus –towards a model of Separate Compilation, Linking and Binary Compatibility," 14 th Symposium on Logic in Computer Science – IEEE Computer Society, July 2-5, 1999, Los Alamitos, California, pp 147-156		
Eisenberg, M. "Programmable applications: exploring the potential for language/interface symbiosys," Behaviour & Information Technology, 1995, 56-66			
AS Franconi, E. et al., "A Semantic Approach for Schema Evolution and Versioning Object-Oriented Databases," J. Lloyd et al., (Eds.), Computational Logic – CL 2 Proc. First Int'l. Conference, July 24-28, 2000, London, UK, pp. 1048-1062 AT Gal, A. et al., "A Multiagent Update Process in a Databased with Temporal Data Dependencies and Schema Versioning," IEEE Transactions on Knowledge and Engineering, January/February 1998, 10(1), 21-37			

List of Patent and Publications Cited by Applicant (Use several sheets if necessary)

U.S. Department of Commerce Patent and Trademark Office



Docket No.

MSFT-0584/167511.2

Applicant

Steven E. Swenson et al.

Serial No RECEIVED

Technology Center 2700

Filing Date July 13, 2001

2152

OTHER DOCUMENTS	(Including Author	, Title, Date,	, Pertinent Pages, Etc.)
	` •	, , ,	, ,

AU	Gentner, T. et al., "Perceptual classification based on the component structure of song in European starlings," J. Acoust. Soc. Am., June 2000, 107(6), 3369-3381			
AV	Goddard, N.J., "Using the "C" programming language for interface control," Laboratory Microcomputer, Autumn 1982, 15-22 Goldman, C.V. et al., "NetNeg: A connectionist-agent integrated system for representing musical knowledge," Annals of Mathematics and Artificial Intelligence, 1999, 25, 69-90			
AW				
AX	 Goldstein, T.C. et al., "The Object Binary Interface- C++ Objects for Evolvable Shared Class Libraries," USENIX Association - Proc. of the 1994 USENIX C++ Conference, April 11-14, 1994, Cambridge, MA, 1-19 Hori, T. et al., "Automatic music score recognition/play system based on decision based neural network," 1999 IEEE Third Workshop on Multimedia Signal Processing, Ostermann, J. et al. (eds.), 1999, 183-184 Kieckhefer, E. et al., "A computer program for sequencing and presenting complex sounds for auditory neuroimaging studies," J. Neurosc. Methods, August, 2000, 101(1), 43-48 			
AY				
AZ				
ВА	Kirk, R. et al., "Midas-Milan - an open distributed processing system for audio signal processing," J. Audio Enginerr. Soc., 1996, 44(3), 119-129			
ВВ	Krulwich, B., "Lifestyle finder - Intelligent user profiling using large-scale demographic data," AI Magazine, 1997, 18(2sum), 37-45			
ВС	BC Lethaby, N., "Multitasking with C++," Proc. of the 5 th Annual Embedded Syste Conference, 5-8 October 1993, Santa Clara, CA, 2, 103-120 BD Lewine, D., "Certifying Binary Applications," Proc. of the Spring 1992 EurOp USENIX Workshop, April 6-9, 1992, Jersey, Channel Islands, 25-32			
BD				
BE	Li, D. et al., "Classification of genera Recogn. Letts., 2001, 22(5), 533-544	Li, D. et al., "Classification of general audio data for content-based retrieval," Pattern Recogn. Letts., 2001, 22(5), 533-544		
EXAMINER		DATE CONSIDERED		

List of Patent and Publications Cited by Applicant (Use several sheets if necessary)

U.S. Department of Commerce Patent and Trademark Office



Docket No.

MSFT-0584/167511.2

Serial No. 09/904,465

Applicant

Steven E. Swenson et al.

Filing Date
July 13, 2001

Group echnology Center 2100

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

		-,		
BF	1 -	uctor - A Virtual Reality System for Music rning," Displays, 1994, 15(3), 141-147		
BG	Logrippo, L., "Cluster analysis for the melodies," Computers Humanities, 19	e computer-assisted statistical analysis of 986 , <i>20(1)</i> , 19-33		
ВН	_	Kernal Method for Web Audio Classification," Speech, and Signal Processing, Proceedings,		
ВІ	_	Prototype Implementation of a "Structure Within an IPSE," <i>Microprocessing and</i> 40		
BJ	Oiwa, Y. et al., "Extending Java Virta Conversion," Concurrency: Practice	ual Machine with Integer-Reference and Experience, May 2000, 12(6), 407-422		
ВК		salah, C. et al., "Complex Object Versioning," Advanced Information Systems ineering - Proc. 9 th Int'l. Conference, CaiSE'97, June 16-20, 1997, Catalonia in, 259-272		
BL	Pesavento, M. et al., "Unitary Root-MUSIC with a Real-Valued Eigendecomposition A Theoretical and Experimental Performance Study," <i>IEEE Transactions on Signal Processing</i> , May 2000, 48(5), 1306-1314			
BM	Pirn, R., "Some Objective and Subjective Aspects of 3 Acoustically Variable Halls," Appl. Acoustics, 1992, 35(3), 221-231			
BN	Proper, H.A., "Data schema design as a schema evolution process", Data & Knowledge Engineering, 1997, 22, 159-189			
ВО	Roddick, J.F., "A survey of schema versioning issues for database systems," Information and Software Technology, 1995, 37(7), 383-393			
Rose, E. et al., "Schema versioning in a temporal object-oriented data model, Journal on Artificial Intelligence Tools, 1998, 7(3), 293-318				
EXAMINER		DATE CONSIDERED		

List of Patent and Publications Cited by Applicant (Use several sheets if necessary)

U.S. Department of Commerce Patent and Trademark Office



Docket No.

MSFT-0584/167511.2

Serial No. 09/904,465

Applicant

Steven E. Swenson et al.

Filing Date July 13, 2001

PECEIVED

Technology Center 2100 Group 2152

Patent and Tradem	ark Office		July 13, 2001	2152	- Ter
OTHER DOCUM	IENTS (Including Author, Title,	, Dat	e, Pertinent Pages, Etc.)		
Serra, A., "New solutions for the transmission of music. Possible methods in the reduction of the pass band," Revista Espanola de Electronica, July, 1976, 34-35 (English language abstract attached)					
BR	Smith, M.W.A., "A relational database for the study and quantification of tempo directions in music," <i>Comput. Humanities</i> , 1994 , <i>28(2)</i> , 107-116			mpo	
BS	Speiser, J.M. et al., "Signal proc value decomposition," Proceeding Real Time Signal Processing VI	ngs o	f SPIE - The Int'l Socity fo	or Optical En	_
Surveyer, J., "C+ = (C-Sharp = = Microsoft Java++)? True:False;", Java R October 2000, 5 pages			se;", Java Re	port,	
BU	Tsotras, V. et al., "Optimal Versioning of Objects," Eighth Int'l. Conference of Engineering – IEEE Computer Society, February 2-3, 1992, Tempe, Arizona, 365				
BV	Urtado, C. et al., "Complex entit Systems, 1998, 23(3/4), 197-216	-	rsioning at two granularity	/ levels," Info	rmation
BW	BW Wieczerzycki, W., "Advanced versioning mechanisms supporting CSCW environments," <i>Journal of Systems Architecture</i> , 1997, 43, 215-227		•		
Yoder, M.A. et al., "Using Multimedia and the Web to teach the theory of digmultimedia signals," Proceedings. Frontiers in Education, 1995 25th Annual Conference. Engineering Education for the 21st Century, IEEE, Budny, D. e (eds.), November 1-4, 1995, Vol. 2, Atlanta, GA			:l		
Zhang, T. et al., "Audio content analysis for online audiovisual data segment classification," <i>IEEE Trans. on Speech and Audio Processing</i> , May, 2001 , <i>9</i> (457					
Zhang, T. et al., "Heuristic approach for generic audio data segmentation and annotation," <i>Proceedings ACM Multimedia 99</i> , 1999 , 67-76			d		
EXAMINER			DATE CONSIDERED		